



WEBER BASIN WATER CONSERVANCY DISTRICT

S u m m a r y 2 0 0 4

MESSAGE FROM THE GENERAL MANAGER



On behalf of the Weber Basin Water Conservancy District, I offer our 2004 Summary of Operations. My compliments extend to our Board and staff as they deal with the complexities of purveying water to an ever-increasing population, even in times of drought. The 2003/2004 snow totals did little to eradicate drought conditions in our watersheds. Continued conservation practices by our customers, along with the valuable sustained storage in our large reservoirs, allowed the District to continue service to its municipal, agricultural, and industrial customers.

Increasingly more stringent drinking water regulations were met by our treatment plants and municipal systems as we bring new capital facilities on-line. New programs for preventive and corrective maintenance were implemented which will prolong life of our extensive infrastructure. Studies and planning continue for meeting the increasing water demands of our upper-mountain valleys as well as the Wasatch Front. New technologies are being explored for stretching the valuable supplies we manage.

I hope that you find in the following pages, a small sample of our year's efforts and some indication of the services provided by the District. We are striving to be responsive to the needs of the communities in our five counties and to be good stewards of one of our most treasured natural resources.

Sincerely,

Tage I. Flint, PE
General Manager/CEO

SUMMARY OF OPERATIONS - 2004

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2004 BOARD OF TRUSTEES

The Board of Trustees is the governing body of the District and consists of representatives from Davis, Morgan, Summit and Weber Counties. Trustees are appointed by the Governor of the State of Utah after receiving recommendations from the County Commissions. The Board appoints a General Manager who serves as the Chief Executive Officer of the District. The General Manager also serves as the Treasurer and Secretary of the District.



Jewel Lee Kenley

Trustee, Davis County

Ms. Kenley is the current President of the Board. She is also President and owner of Ed Kenley Ford and was appointed to represent Davis County as a Trustee in 1995.



Karen W. Fairbanks

Trustee, Weber County

Appointed to the board in 1995 as a representative of Weber County, Mrs. Fairbanks is a business woman and a long-time volunteer leader in various not-for-profit organizations in the Ogden community.



Wayne B. Gibson

Trustee, Weber County

Mr. Gibson is the senior board member. He is a dairy farmer and rancher who owns and operates a large dairy in West Weber and was appointed to the Board in 1984 as a representative of Weber County.



Robert L. Hensley

Trustee, Weber County

Mr. Hensley was appointed to the Board in 1998 as a representative of Weber County. He retired from Weber Basin Water in 1985 and has spent the last several years as a self-employed consultant/inspector.



Charles F. Black, Jr.

Trustee, Davis County

President and General Manager of Black Island Farms, Inc., and Vice President of Condies Food, Inc., Mr. Black was appointed to represent Davis County as a Trustee in 1987.



Charlene M. McConkie

Trustee, Davis County

A resident of south Davis County, Mrs. McConkie was appointed to the board in 2002 as a representative of Davis County. She has been involved in the business community for many years.



Stephen A. Osguthorpe

Trustee, Summit County

The representative of Summit County on the Board from Park City, Mr. Osguthorpe is a businessman and rancher who was appointed to the Board in 1989.



Eric B. Storey

Trustee, Weber County

Mr. Storey is from Eden and represents the Ogden Valley area of Weber County. He is employed by Zions Bank as Manager of Corporate Real Estate. Mr. Storey was appointed to the Board in 2004.



Scott F. Peterson

Trustee, Morgan County

Appointed to the Board in 1991, Mr. Peterson owns and operates a dairy farm in Milton and serves as the representative from Morgan County.



Tage I. Flint

General Manager/CEO

Mr. Flint has worked in the water industry for 20 years. He is a registered professional engineer with a degree in Civil Engineering.

2004 STAFF

GENERAL MANAGER/CEO

Tage I. Flint, *PE*

ASSISTANT GENERAL MANAGERS

Mark D. Anderson, *PE, Chief Engineer*

Scott W. Paxman, *PE, Water Supply*

FINANCE AND HUMAN RESOURCES

John K. Davis, *Manager/Controller*

ADMINISTRATION

Sherrie A. Mobley, Manager

Colette Edwards
Jackie E. Elsnab
Deena Harris
Lee Heslop

Adm. Assistant to GM/CEO
Accountant
Secretary/Receptionist
Courier

ENGINEERING

Darren Hess, PE, Manager

Jeff Morgan
Brad Nelson, *PE*
Glenn Steigmeyer

Inspector
Engineer
Technician

MAINTENANCE & HEAVY EQUIPMENT DEPARTMENT

Louis K. Eddy, Manager

Scott Evans
Russell Fearn
David Fisher
Bill Hunter
Jacob Jaques
Nolan Kelley
Ben Love

Preventative Maint./Sp. Projects
Foreman, Preventative Maint.
Part-time Maintenance
Mechanic
Foreman, Work Orders
Foreman, Special Projects
Special Projects Crew

Jarime Nance
Larry Nielson
Dallas Sill
Ken Stoker
James West
Scott Wilson
Jared Woolsey

Special Projects Crew
Prev. Maint./Sp. Projects
Work Orders Crew
Special Projects Crew
Shop Foreman
Special Projects Crew
Welder

POWER & IRRIGATION DEPARTMENT

Grant E. Salter/Chris C. Hogge, PE, Manager

Gary Allen
Gordon Barrow
Jon Cargeeg
Richard Day
Britt DeJong
Ruben Escobedo
Jack Jaques

Electrician
Irrigation Operator
Irrigation Operator
Laborer/Sprayer
Power Plant Operator
Irrigation Operator
Irrigation Operator

Onie Medina
Michael Midgley
Jerry Nylander
Jason Obray
Jeromy Pectol
Ken Turner
Bob Waldron

Part-time Irrig Operator
Electrician Foreman
Power Plant Operator
Electrician
Irrigation Operator
Electrician
Power Plant Operator

MUNICIPAL & INDUSTRIAL WATER DEPARTMENT

Mark H. Clark, Manager

Robert Bird
Jeff Connor
Bart Fearn
Lee Folkman
Matt Fuller
Dean Gifford
David Giles
David Hardy
Alan Hatch
Harold Israelsen
Jerrold Jensen
Tim Jensen
John Jacobson
Kevin Kozak
Kris Mabry

Chemist
Treatment Plant Operator
Manager, Davis North WTP
Lead Pipeline Operator
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Manager, Weber South WTP
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator

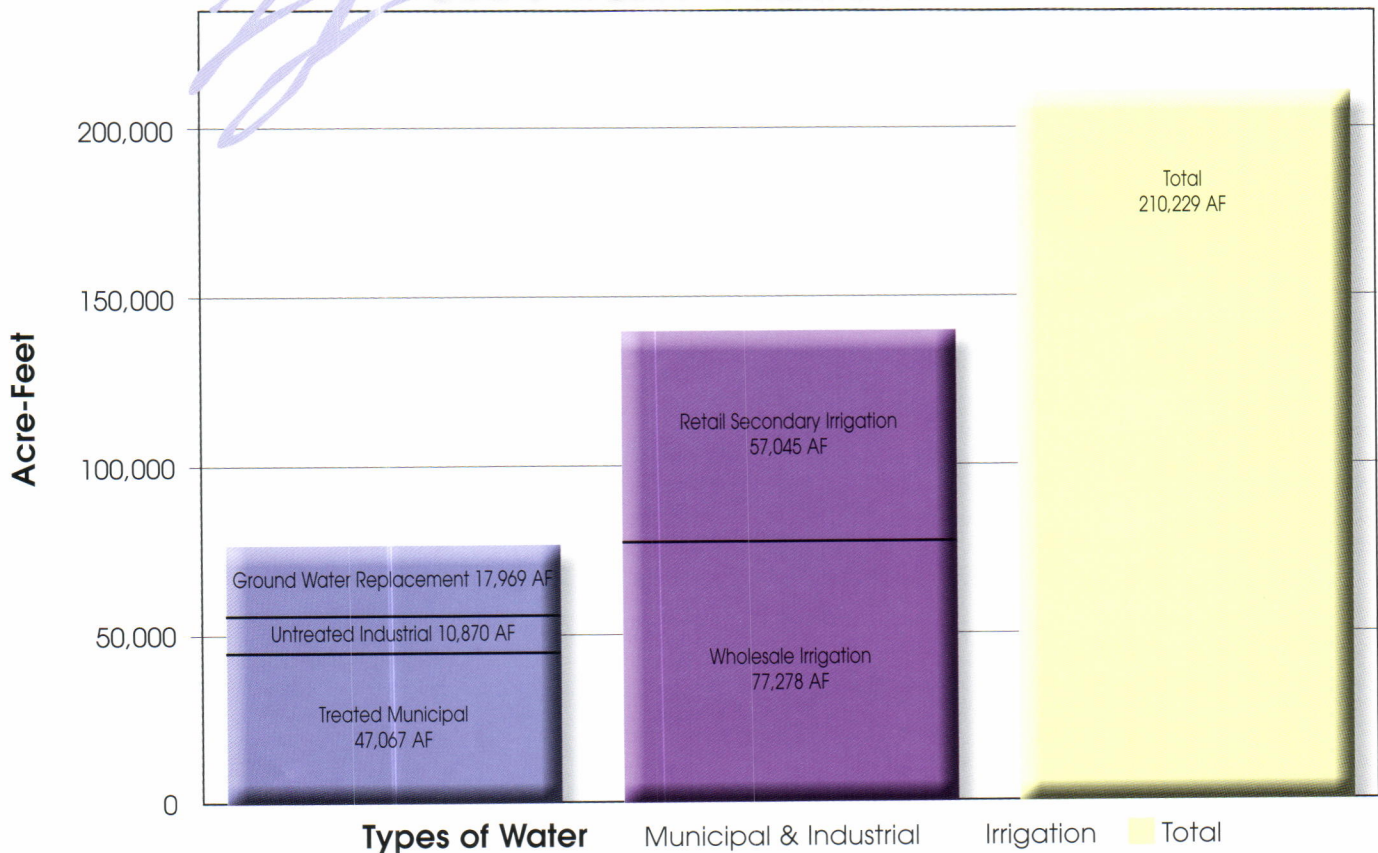
Karen Mann
Jim McCowen
Marc Montgomery
Douglas Parslow
Scott Peterson
Todd Pollock
Abby Jo Preece
Scott Rackham
Auggie Rose
Clay Schmalz
Paul Spens
Wayne Taylor
Eun Turpin
Jeff Weyburn

Chemist
Plant Maintenance
Treatment Plant Operator
Pipeline Operator
Chemist, Lab Supervisor
Treatment Plant Operator
Treatment Plant Operator
Treatment Plant Operator
Mgr., Davis South WTP
Foreman, Plant Maint.
Treatment Plant Operator
Treatment Plant Operator
Chemist
Solids Handling Specialist

TOTAL DISTRICT WATER SALES - 2004

The District supplies five categories of water to its customers, including wholesale irrigation, retail secondary irrigation, treated municipal, untreated industrial and groundwater replacement. During 2004, the District's total water sales reached 210,229 acre-feet. The graph below shows the quantities sold of each category. The District's customers who purchase this water are listed on the following pages.

2004 Water Contracts



Wholesale Irrigation: The District supplies water to various secondary water companies and districts along the Wasatch Front. These organizations then retail water to customers in their respective service areas. The District is also a source of economical irrigation water purchased by irrigation companies and retailed to individual farmers.

Retail Secondary Irrigation: Many residents of Davis and Weber counties enjoy the use of Weber Basin water to irrigate their lawns and gardens. The District provides secondary water directly to many residents from Ogden to Bountiful. The District also delivers economical irrigation water to many farmers in Box Elder, Davis, Morgan, Summit and Weber Counties.

Treated Municipal: The District wholesales culinary water to almost every city and water improvement district in Davis and Weber Counties. They provide either all or a portion of this supply to their customers.

Untreated Industrial: Many industries in Davis and Weber Counties rely on water supplied by the District for their manufacturing and other uses.

Groundwater Replacement: Many residents within the District do not have access to a municipal or community water system and must depend on alternative sources for their domestic water. Additionally, some municipalities and public water systems located away from main waterways require groundwater for which no new appropriations are given. Utilizing District owned reservoir storage rights, drinking water purveyors and individuals may contract with the District for a water supply which, along with an approved exchange application from the State Engineer, permits drilling of a well to meet the needs of these individuals.

2004 FINANCIAL INFORMATION

During Fiscal Year 2004, virtually all of the remaining \$4,000,000 from the 2002 Bond Series' \$30,000,000 was expended on the continued construction/rehabilitation of the Davis North and Davis South water treatment plants. In addition to the bond funds being expended, capital improvement funds were used to purchase parcels of property in Davis County for the Aquifer Storage and Recharge Project and for a future water reservoir site. Rehabilitation and Betterment projects continued with the major expenditures being for work on the Gateway Canal and the Weber and Davis aqueducts.

The Fiscal Year 2004 was again a year of drought resulting in decreased power revenue and large power costs caused by increased pumping operations. High power costs are among the main reasons for the increased cost of operating and maintaining the District over the last several years.

STATEMENT OF REVENUES AND EXPENDITURES

Fiscal Year Ended June 30, 2004

REVENUE:

Water Sales	\$10,829,575
Taxes & Fee-in-Lieu of Taxes	5,138,259
Power Sales	1,709
Interest & Misc.	1,094,712
Use of Loan & Bond Proceeds*	12,370,782
TOTAL REVENUE	\$29,435,038

EXPENDITURES:

Water Payments & Assessments	\$404,638
Operating Expenses	6,220,224
Repairs & Services	1,475,039
Utilities	1,442,252
Loan & Bond Payments	4,134,140
Interest Expense	3,067,039
Capital Improvements	12,691,706
TOTAL EXPENDITURES	\$29,435,038

*Total of Loan Advances received during Fiscal Year 2004 was \$596,016.
The balance of the 2002 Bond Series funds were expended during FY2004.

Balance Sheet

Fiscal Year Ended June 30, 2004

ASSETS:

Current Assets	\$39,346,978
Sinking Fund & Reserve Fund Assets	4,273,631
Property & Equipment (less accumulated depreciation)	207,795,598
TOTAL ASSETS	\$251,416,207

LIABILITIES:

Current Liabilities	\$6,888,486
Long-term Obligations	117,958,090
TOTAL LIABILITIES	\$124,846,572

NET ASSETS	\$126,569,635
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ENGINEERING DEPARTMENT

The District's engineering staff has coordinated with various consultants and contractors, as well as with District M&I, Irrigation and Maintenance personnel in order to complete the needed projects. All of these projects are pursued in an effort to raise the level of reliability, water quality and adaptability of the District's infrastructure to the changing needs of our users.

The District continues to take on the challenge of meeting current and future water supply and infrastructure needs within District boundaries. Some highlights from 2004 are an aquifer storage and recovery project near the mouth of Weber Canyon to determine the feasibility of groundwater recharge, continued rehabilitation of existing facilities including the Riverdale Well Culinary pump station and the P3.7 (East Layton) Secondary Booster pump station, and expansion of secondary water systems in the West Haven area.

Aquifer Storage and Recovery Project



The District was the lead participant in a joint pilot project that included participation from the U.S. Bureau of Reclamation, Weber State University, State of Utah, Utah Geological Survey and University of Utah. The pilot project will determine the feasibility of groundwater recharge near the mouth of Weber Canyon. Water was diverted from the Weber River via the South Weber Canal to 12.8 acres of land that the District purchased near Parsons' gravel pit. Ponds were constructed on the site, along with a diversion structure on the South Weber Canal and a weir box to measure total flow diverted. There were approximately 800 acre-feet of water recharged during the 3 month pilot project.



The District completed Phase III and IV of the West Haven Secondary Project. Phase III included 5,150 feet of 18" and 16" PVC piping as well as 3,200 feet of 12" PVC piping. The 18" and 16" pipelines were installed on 2200 South to extend the secondary water system to the east to 1900 West. The 12" pipeline was installed on 2550 South to extend the system to the western boundary of West Haven City. These pipelines were installed in order to provide secondary water to new subdivisions in West Haven City. Construction costs totaled \$412,000.

Phase IV included installation of 3,340 feet of 10" PVC piping in efforts to continue expansion of the West Haven Secondary project. This pipeline was installed on 4700 West to extend the secondary water system to the northern boundary of West Haven City. Construction costs totaled \$160,000.



Construction of the P3.7 secondary water booster pump house on Valley View Drive in Layton was completed in 2004. The pump house was built using two vertical turbine pumps. The construction period was between December 1, 2003 and June 2004. Construction costs totaled \$313,659.





The District installed 24,000 feet of fencing along the Gateway Canal corridor. This project was completed to replace old fencing materials and move the fence line to property line. Construction costs totaled \$65,000.

Photos to the left show the Gateway Canal Fencing Phase I Project.



Photos below show the Riverdale Well Pump House.



The Riverdale Well Pump House was completed on 700 West in Riverdale. The pump house was built using a vertical turbine pump, variable speed booster pump with the option of pumping to either the high or low pressure zones, and a settling tank for sand removal. The construction period was between December 1, 2003 and July 15, 2004. Construction costs totaled \$686,162.



MAINTENANCE DEPARTMENT

The Maintenance Department has assignments in three categories: Special Projects, Preventative Maintenance and Work Order. These three divisions strive in a continued effort to keep the District Facilities in sound operating condition.

The Maintenance Department provides assistance and support to all departments in the District. Their primary responsibility is the maintenance of all District facilities. During 2004, the Maintenance Department continued efforts to dredge inlet channels, rehabilitate aqueduct structures, rehabilitate wells, rehabilitate the Gateway Canal, and repair/construct other District projects. Further details on these projects follow.



During 2004, the Special Projects Division repaired approximately 115 leaks of various types throughout our irrigation and municipal systems.

With the continued drought conditions, additional dredging of the channel into Willard Bay was needed. This enabled the District to pump water from Willard Bay and conserve upstream reservoir water. The dredging was accomplished with a Mudcat underwater dredge which cut a channel 27 feet wide, 6 feet deep, and approximately 2,000 feet long into Willard Bay. About 12,000 cubic yards of silt was removed from the channel.





The District continued its efforts to rehabilitate aging well equipment. During rehabilitation of the North Ogden Well, the Special Projects Division installed 1,100 feet of 12" concrete pipe for a flush line.



Rehabilitation and Betterment (R&B) work continued on the Gateway Canal. The first phase of fence replacement along the Gateway canal was accomplished. The Special Projects Division was responsible for clearing the property line so installation of the fence could begin. Installation of two additional Langemann gates were completed on Gateway Canal which enables the canal to be checked up and kept full to prevent frost heaving of the lining. Additionally, 125 concrete sections of canal lining were removed and replaced.



The Preventative Maintenance Division continued its rehabilitation of structures on the Davis Aqueduct system. This second phase of rehabilitation included the cleaning and inspection of the structures for integrity of the piping and valves. Replacement of some of the valves and associated piping was required in some of the structures and installation of new access hatches to each vault. Work included removal of lead paint from the structures and priming and repainting them.



The Work Order Division is responsible for sludge removal at all three water treatment plants. Since the completion of rehabilitation at the plants, sludge removal is required at regular intervals throughout the year. All three plants have different sludge processes. Weber South has four solar beds which require cleaning once a year. Davis North has a centrifuge system which can require daily hauling. Davis South has vacuum assisted beds which require bi-weekly hauling during the summer months. Many other maintenance work orders were completed by the Work Order Division.

MUNICIPAL & INDUSTRIAL WATER DEPARTMENT



The 2004 water year for the M&I Department resembled the two preceding drought years. Although the 2004 demand was slightly higher than 2003, demands on the system were less than expected. This lower demand is largely due to the public's response to drought related conservation requests.

The Ultraviolet Disinfection System was completed and put into service at the Davis South Water Treatment Plant enhancing disinfection capabilities. The new solar drying bed was finished and put into service which completed the final phase of the plant upgrade.

Ultraviolet Reactor at Davis South Water Treatment Plant

A consulting engineer was chosen and design began for the upgrade of the Weber South Water Treatment Plant. New filters and new chemical facilities will be constructed over the next few years.

The District also continued the upgrade of its drinking water wells. The Riverdale well was rehabilitated as the District depends more on its groundwater sources than in years past. These continuing upgrades will insure their readiness. New landscaping was added at several well structures and pumping facilities to enhance our presence in the community.

Landscaping at Davis South Water Treatment Plant



SUMMARY OF M&I WATER DELIVERIES 2004 (ACRE-FEET)

UNTREATED WATER			
CONTRACTING ENTITY	CONTRACT AMOUNT	AMOUNT USED	% USED
BIG WEST OIL	100.00	50.21	50.21%
CHEVRON, USA	1,200.00	332.61	27.72%
GREAT SALT LAKE MINERALS	7,980.00	5,862.19	73.46%
OGDEN CITY	1,500.00	1,500.00	100.00%
NORTH SALT LAKE CITY	30.00	11.87	39.57%
WEBER BASIN JOB CORP.	60.00	38.20	63.67%
TOTAL UNTREATED	10,870.00	7,795.08	71.71%
TREATED WATER			
CONTRACTING ENTITY	CONTRACT AMOUNT	AMOUNT USED	% USED
DAVIS COUNTY			
BOUNTIFUL CITY	1,000.00	982.65	98.27%
CENTERVILLE CITY	500.00	495.79	99.16%
CHEVRON, USA	2,000.00	1,530.08	76.50%
CLEARFIELD CITY	4,380.00	4,754.92	108.56%
CLINTON CITY	1,600.00	1,362.93	85.18%
FARMINGTON CITY	501.00	487.55	97.32%
FRUIT HEIGHTS CITY	445.00	342.49	76.96%
GENEVA ROCK	42.00	29.45	70.12%
HIGHLAND WATER COMPANY	5.00	0.00	0.00%
HILL AIR FORCE BASE	1,018.79	1,007.92	98.93%
KAYSVILLE CITY	2,500.00	2,343.73	93.75%
LAYTON CITY	6,789.00	6,789.00	100.00%
MUTTON HOLLOW WID	205.00	187.17	91.30%
NORTH SALT LAKE CITY	1,905.00	1,453.63	76.31%
SOUTH DAVIS COUNTY WID	360.00	360.00	100.00%
SOUTH WEBER CITY	600.00	529.20	88.20%
SUNSET CITY	1,400.00	1,013.79	72.41%
SYRACUSE CITY	1,225.00	1,392.52	113.68%
WASATCH ENERGY SYSTEMS	353.00	316.37	89.62%
WEBBS CANYON WATER COMPANY	9.00	7.21	80.11%
WEST BOUNTIFUL CITY	750.00	653.98	87.20%
WEST POINT CITY	700.00	497.24	71.03%
WOODS CROSS CITY	100.00	0.00	0.00%
TOTAL DAVIS COUNTY	28,387.79	26,537.62	93.48%
MORGAN COUNTY			
REPLACEMENT WATER	1,144.00	1,144.00	100.00%
SUMMIT COUNTY			
REPLACEMENT WATER	12,212.00	12,212.00	100.00%
WEBER COUNTY			
BONA VISTA WATER IMP DIST	2,536.00	2,070.00	81.62%
GREAT SALT LAKE MINERALS	789.00	647.32	82.04%
HOOPER WATER IMP DISTRICT	5.00	0.21	4.20%
JEWETT CAMERON LUMBER	5.00	0.40	8.00%
LAND BROKERS REALTY	5.00	9.54	190.80%
OGDEN CITY	6,900.00	7,131.34	103.35%
PARSONS	22.00	21.98	99.91%
RIVERDALE CITY	1,100.00	1,050.76	95.52%
ROY CITY	3,628.00	3,538.70	97.54%
SOUTH OGDEN CITY*	785.00	785.00	100.00%
TAYLOR-WEST WEBER WID	450.00	343.96	76.44%
UINTAH HIGHLANDS WID	237.00	187.82	79.25%
UINTAH TOWN	358.00	331.37	92.56%
WASHINGTON TERRACE CITY	1,000.00	920.09	92.01%
WEST WARREN-WARREN WID	300.00	217.39	72.46%
WESTERN ZIRCONIUM	560.00	325.76	58.17%
REPLACEMENT WATER	4,612.00	4,612.00	100.00%
TOTAL WEBER COUNTY	23,292.00	22,193.64	95.28%
TOTAL TREATED	65,035.79	62,087.26	95.47%
TOTAL UNTREATED & TREATED	75,905.79	69,882.34	92.06%

*Amount of Birch Creek water treated for South Ogden City: 882.39 acre-feet.

The following entities added to their contracts during 2004: Bona Vista WID (175), Layton City (158), Ogden City (100)

NET PRODUCTION OF CULINARY WATER FROM TREATMENT PLANTS & WELLS - 2004 (ACRE-FEET)

MONTH	WEBER SOUTH PLANT		DAVIS NORTH PLANT		DAVIS SOUTH PLANT		PRODUCTION TOTAL OF ALL TREATMENT PLANTS	PRODUCTION TOTAL OF ALL WELLS	GROSS TOTAL PRODUCTION OF WELLS & TREATMENT PLANTS
	TOTAL MONTHLY PRODUCTION	% OF PLANT CAPACITY	TOTAL MONTHLY PRODUCTION	% OF PLANT CAPACITY	TOTAL MONTHLY PRODUCTION	% OF PLANT CAPACITY			
JAN	1,114.00	46.42%	1,422.00	32.92%	412.08	26.59%	2,948.08	526.11	3,474.19
FEB	830.00	34.58%	1,396.00	32.31%	345.18	22.27%	2,571.18	589.99	3,161.17
MAR	761.00	31.71%	1,549.00	35.86%	288.45	18.61%	2,598.45	641.64	3,240.09
APR	814.00	33.92%	1,384.00	32.04%	325.44	21.00%	2,523.44	603.02	3,126.46
MAY	1,155.00	48.13%	1,855.00	42.94%	548.06	35.36%	3,558.06	715.65	4,273.71
JUN	1,256.00	52.33%	2,369.00	54.84%	521.65	33.65%	4,146.65	710.84	4,857.49
JUL	1,921.00	80.04%	3,216.00	74.44%	450.47	29.06%	5,587.47	1,138.81	6,726.28
AUG	1,196.00	49.83%	2,548.00	58.98%	609.56	39.33%	4,353.56	1,297.18	5,650.74
SEP	943.00	39.29%	2,070.00	47.92%	545.31	35.18%	3,558.31	1,088.97	4,647.28
OCT	1,653.00	68.88%	1,327.00	30.72%	554.66	35.78%	3,534.66	676.70	4,211.36
NOV	1,072.00	44.67%	990.00	22.92%	364.22	23.50%	2,426.22	378.22	2,804.44
DEC	710.00	29.58%	1,327.00	30.72%	427.19	27.56%	2,464.19	507.81	2,972.00
TOTAL	13,425.00		21,453.00		5,392.27		40,270.27	8,874.94	49,145.21

PERCENT OF INDIVIDUAL PLANT PRODUCTION COMPARED TO TOTAL PLANT PRODUCTION:

	PRODUCTION	% OF TOTAL
WEBER SOUTH PLANT	13,425.00	33.34%
DAVIS NORTH PLANT	21,453.00	53.27%
DAVIS SOUTH PLANT	5,392.27	13.39%
TOTAL	40,270.27	100.00%

MONTHLY CAPACITY:

WEBER SOUTH PLANT	2,400 AC-FT	18,000 GPM
DAVIS NORTH PLANT	4,320 AC-FT	32,000 GPM
DAVIS SOUTH PLANT	1,550 AC-FT	11,250 GPM
WELLS 35.6 MGD	3,387 AC-FT	24,720 GPM
TOTAL	11,657 AC-FT	85,970 GPM

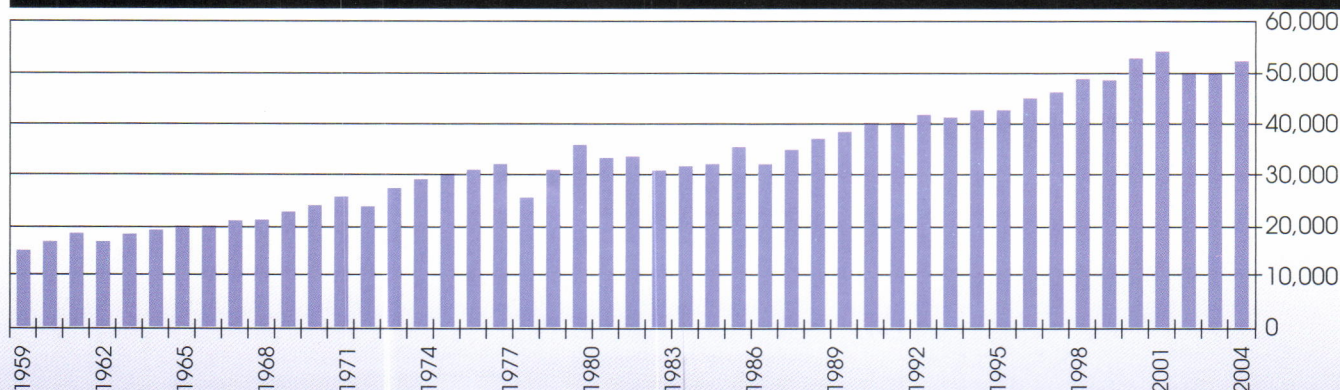
PERCENT OF PRODUCTION COMPARED TO TOTAL PLANT AND WELL PRODUCTION:

	PRODUCTION	% OF TOTAL
WEBER SOUTH PLANT	13,425.00	27.32%
DAVIS NORTH PLANT	21,453.00	43.65%
DAVIS SOUTH PLANT	5,392.27	10.97%
WELLS	8,874.94	18.06%
TOTAL	49,145.21	100.00%

DAILY PEAK PRODUCTION 72 MGD

POPULATION SERVED 477,000

MUNICIPAL & INDUSTRIAL DELIVERED WATER FROM TREATMENT PLANTS AND WELLS 1959 - 2004



WATER PUMPED FROM WEBER BASIN WELLS 2004 (ACRE-FEET)

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
BEN LOMOND	0.00	0.00	0.00	0.00	95.98	110.63	111.91	118.36	85.63	100.05	0.00	0.00	622.56
CLEARFIELD #1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.95	0.00	18.95
CLEARFIELD #2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DISTRICT WELL #2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DISTRICT WELL #3	526.11	589.99	623.59	603.02	619.67	590.58	609.92	601.34	605.00	176.25	0.00	399.08	5,944.55
FAIRFIELD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LAYTONA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	173.64	0.00	0.00	0.00	0.00	173.64
NORTH OGDEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ORCHARD DR.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIVERDALE	0.00	0.00	0.00	0.00	0.00	0.00	181.13	403.84	398.34	400.40	325.03	108.73	1,817.47
SOUTH DAVIS	0.00	0.00	0.00	0.00	0.00	9.63	235.85	0.00	0.00	0.00	34.24	0.00	279.72
SOUTH WEBER #1	0.00	0.00	18.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.05
SOUTH WEBER #2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	526.11	589.99	641.64	603.02	715.65	710.84	1,138.81	1,297.18	1,088.97	676.70	378.22	507.81	8,874.94
ACCUM. TOTAL	526.11	1,226.10	1,757.74	2,360.76	3,076.41	3,787.25	4,926.06	6,223.24	7,312.21	7,988.91	8,367.13	8,874.94	8,874.94

IRRIGATION WELLS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FARMINGTON WELL #1	0.00	0.00	0.00	0.00	0.00	41.78	87.15	81.57	0.00	0.00	0.00	0.00	210.50
FARMINGTON WELL #2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.30	10.12	0.00	0.00	0.00	20.42
WEST BOUNTIFUL GOLF WELL	0.00	0.00	0.00	0.00	0.00	23.86	95.45	55.68	35.80	0.00	0.00	0.00	210.79
TOTAL	0.00	0.00	0.00	0.00	0.00	65.64	182.60	147.55	45.92	0.00	0.00	0.00	441.71

These wells are some of the facilities which are operated by project generated power.



North Ogden
Well Pump House

M & I WATER DEPARTMENT WEBER BASIN WATER QUALITY LABORATORY



The District maintains a National Environmental Laboratory Accreditation Program certified laboratory. The laboratory's analytical resources make possible organic analysis, inorganic analysis, microbiological analysis, metals analysis and in situ water quality measurements. Many of the routine samples required for regulatory compliance, i.e., total coliform, trihalomethanes, fluoride and nitrate, are conducted in the laboratory. Also, sampling of the Weber River watershed and reservoirs are conducted for water quality trending purposes.

The well at the Aquifer Storage and Recovery study site was pumped and sampled on a weekly basis.



Laboratory personnel participated with the NRCS in performing an assessment of the North, Middle and South Forks of the Ogden River.

M & I WATER DEPARTMENT WATER CONSERVATION

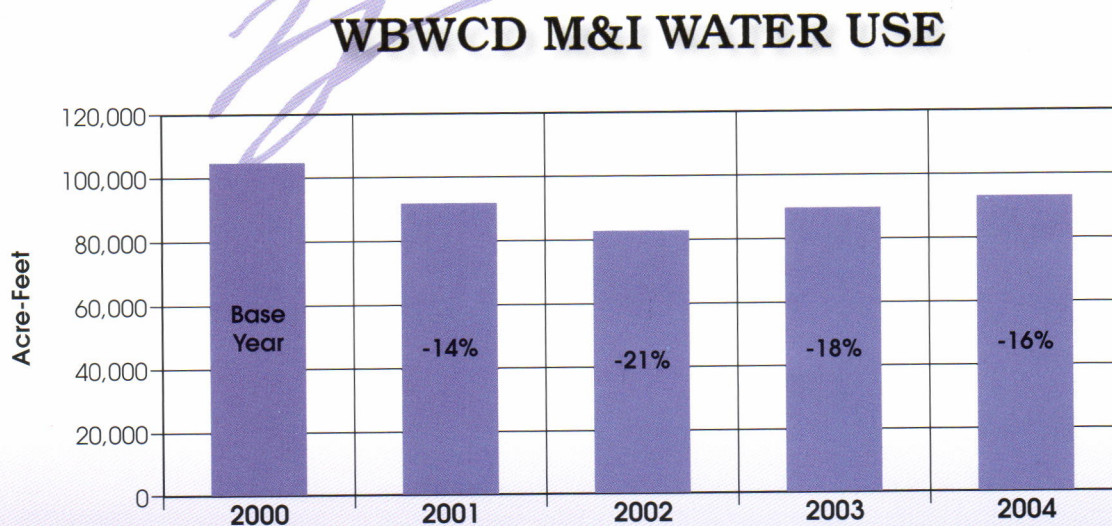
Weber Basin Water Conservancy District (WBWCD) is one of the largest water purveyors in the State of Utah. It wholesales drinking water to almost every municipality in Davis and Weber counties, as well as wholesaling and retailing municipal, secondary and agricultural irrigation water to large areas in Davis, Weber, Morgan and Summit counties. WBWCD's sources include the Weber and Ogden rivers and local groundwater.

WBWCD realizes that conservation of the resources it manages pay an important factor in meeting the long-term needs of the communities it serves. Water conservation will not only extend limited water supplies, but also defer costly infrastructure and development of large water development projects. WBWCD has committed, along with the other members of the Governor's Water Conservation Team, to reduce per capita water use by 25 percent by the year 2050. The District will be using 2000 as the base year and compare water use and demands to that year. Some of the projects and programs the District has planned to implement in meeting this goal are:

1. Improving the metering and water accountability throughout the District.
2. Continue to implement and enforce time of day watering.
3. Encourage water conservation ordinances from its customer agencies.

4. Encourage water conserving water rate structures from its customer agencies.
5. Investigate opportunities for water reuse.
6. Provide public information and education.
7. Provide a water conservation demonstration garden.
8. Hosting Large Water User Workshops.
9. Member of the Governor's Water Conservation Team.
10. Continue to update the District's Water Conservation Plan.

The figure below shows the District's annual municipal and industrial (M&I) water use in Davis and Weber counties for the past five years. With year 2000 as the base year, water use has decreased by an average of approximately 17 percent. This does not take into account the population increase of just under 50,000 in the same five years. The drought years have been a great motivator for many people to respond admirably to conservation requests. It is the District's hope that the water conservation ethic can continue to be a part of the public's life style and that our use per capita can continue to decrease. One lesson learned in the past five years is that we can have beautiful landscapes and still conserve a significant amount of water by being careful and more efficient.



IRRIGATION DEPARTMENT



Year 2004 marked the sixth straight year of drought conditions. During the irrigation season, our operators delivered 80% of irrigation and secondary water allotments as a 20% mandatory conservation reduction was implemented. Efforts to educate the public on water conservation continued as we strictly enforced the "no watering between 10:00 a.m. and 6:00 p.m." restriction.

Our hydropower generation plants were able to generate 15 million KWHs of power through the year while the District's power demand was 35 million KWHs. This deficit required the District to purchase over 20 million KWHs at market prices.

In an effort to preserve upstream storage, the District exchanged water from Pineview and Willard Bay to be used and stored on the Weber River. At Willard Bay, efforts to clean the inlet channel of many years of sediment continued after the irrigation season to ensure the District's ability for future pumping.

Willard Canal

Pump Setup to Pump Water from Willard to GSL



IRRIGATION WATER DELIVERIES 2004 (ACRE-FEET)

CONTRACTING ENTITY	CONTRACT AMOUNT	DELIVERY LOSS	20% DROUGHT REDUCTION	NET USEABLE	USED	% USED
BOUNTIFUL SUB WATER DISTRICT	17,500	1,600	2,880	13,020	10,435	80%
CENTERVILLE DEUEL CREEK	2,891	264	527	2,100	1,518	72%
CHALK CREEK IRRIGATION	643	64	116	463	463	100%
CO-OP FARMS IRRIGATION	300	30	54	216	216	100%
CROYDEN IRRIGATION	450	45	81	324	324	100%
DOWNES CREEK IRRIGATION	100	10	18	72	72	100%
EAST PORTERVILLE IRRIGATION	200	20	36	144	144	100%
EAST WANSHIP/GIBBONS & PACE	100	10	18	72	72	100%
EDEN IRRIGATION	1,200	120	216	864	864	100%
EMMERTSEN IRRIGATION	100	10	18	72	72	100%
FARMINGTON AREA PRESSURE IRRIGATION	4,330	430	779	3,117	1,816	58%
FELT, PETERSON, SLATER IRRIGATION	100	10	18	72	72	100%
HAIGHTS CREEK IRRIGATION	6,922	692	1,246	4,984	3,621	73%
HILL A.F.B. GOLF COURSE	640	64	115	461	401	87%
HILL FIELD AT 193	139	0	28	112	112	100%
HOOPER IRRIGATION	5,700	556	1,019	4,077	4,077	100%
HUNTSVILLE IRRIGATION	600	60	108	432	432	100%
HUNTSVILLE SO BENCH IRRIGATION	600	60	108	432	432	100%
KAYS CREEK IRRIGATION	2,000	200	360	1,440	190	13%
KAYSVILLE IRRIGATION	1,775	178	319	1,275	650	51%
LAGOON AMUSEMENT PARK	225	23	41	162	103	64%
LAYTON CANAL & IRRIGATION COMPANY	5,603	560	1,009	4,034	3,609	89%
LITTLETON-MILTON IRRIGATION	300	30	54	216	216	100%
MIDDLE FORK IRRIGATION	830	83	149	598	586	98%
MOUNTAIN VALLEY CANAL IRRIGATION	1,303	130	235	938	1,031	110%
NORTH MORGAN IRRIGATION	160	16	29	115	115	100%
NORTH ROUND VALLEY	150	15	27	108	108	100%
OAKRIDGE COUNTRY CLUB	500	50	90	360	273	76%
OGDEN RIVER WATER USERS ASSOCIATION	3,420	0	684	2,736	2,736	100%
PETERSON IRRIGATION	616	62	111	441	297	67%
SALMAHO IRRIGATION	167	17	30	120	81	68%
SO DAVIS COUNTY WATER IMPROVEMENT DIST	3,210	321	578	2,312	934	40%
SOUTH MORGAN WATER COMPANY	400	40	72	288	288	100%
SO OGDEN CONSERVATION DISTRICT	2,345	234	422	1,688	1,840	109%
SOUTH WEBER WATER IMP DISTRICT	2,506	0	0	2,506	1,810	72%
SUN HILLS GOLF	536	37	73	425	341	80%
SYRACUSE CITY	1,000	100	180	720	525	73%
UINTAH MOUNTAIN STREAMS	200	20	36	144	132	92%
VALLEY VIEW GOLF COURSE	373	37	67	267	206	77%
WARREN IRRIGATION	663	66	119	447	427	96%
WEBER BASIN JOB CORPS	300	30	54	216	52	24%
WEBER-BOX ELDER CONSERVATION DISTRICT	3,397	340	611	2,446	1,447	59%
WEBER CANAL COMPANY	200	20	36	144	144	100%
WELCH FIELD DITCH	340	24	43	173	173	100%
WEST BOUNTIFUL GOLF	294	0	59	235	195	83%
WEST HOYTSTVILLE IRRIGATION	300	30	54	216	216	100%
WEST WANSHIP IRRIGATION	150	15	27	108	108	100%
WILSON IRRIGATION	1,500	150	270	1,080	1,080	100%
SUBTOTAL	77,278	6,873	13,224	56,992	45,053	79%
RETAIL IRRIGATION WATER SALES	57,045	0	11,409	45,636	45,636	100%
TOTALS	134,323	6,873	24,633	102,628	90,689	88%

2004 PROJECT POWER OPERATIONS

DISTRICT POWER CONSUMPTION - KW

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Total Project Power (KW)	2,356	2,347	1,940	2,586	4,579	10,911	11,661	10,796	7,574	3,403	2,732	2,261	63,146

PROJECT POWER GENERATION - KWH

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
*Net Generation Causey Plant	0	0	127,500	511,070	943,080	223,870	443,200	419,350	155,010	0	0	0	2,823,080
Net Generation Gateway Plant	-14,240	-16,160	511,370	1,419,970	573,830	629,260	955,170	972,940	1,166,940	519,610	-3,840	-5,120	6,709,730
Net Generation Wanship Plant	36,800	-18,720	-15,600	-11,440	356,800	693,450	1,042,080	1,096,140	569,520	365,300	353,090	383,130	4,850,550
Total Output	22,560	-34,880	623,270	1,919,600	1,873,710	1,546,580	2,440,450	2,488,430	1,891,470	884,910	349,250	378,010	14,383,360
Project Use	1,410,195	1,350,581	1,309,532	1,257,014	2,198,593	5,692,320	7,782,560	6,595,900	3,383,797	1,654,573	1,247,002	1,224,753	35,106,820
Delivered to CRSP	-1,387,635	-1,385,461	-813,762	151,516	-1,267,963	-4,369,610	-5,785,310	-4,526,820	-1,647,337	-769,663	-897,752	-846,743	23,546,540

* Not Added to CRSP

WATER USED FOR POWER GENERATION - AF

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Causey	0	0	1,914	3,960	4,716	1,780	3,282	4,044	7,340	0	0	0	27,036
Gateway	0	0	4,042	11,456	4,722	5,093	7,758	7,964	9,023	4,225	0	0	58,894
Wanship	856	0	0	0	4,318	7,396	9,986	10,248	10,248	6,078	5,446	4,318	58,894
Total	856	0	5,956	15,416	13,756	14,269	21,026	22,256	26,611	10,303	5,446	4,318	140,213

2004 RESERVOIR OPERATIONS

STORAGE CONTENT AS OF LAST DAY OF MONTH (AF)

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Causey	2,143	2,265	3,266	6,548	6,843	6,762	4,854	2,359	1,553	1,934	2,709	3,156
East Canyon	24,970	26,240	31,340	36,510	39,500	38,710	34,510	30,130	27,800	29,000	30,600	32,410
Echo	37,3340	41,220	47,550	54,575	57,320	52,730	39,040	28,400	18,190	17,810	29,010	31,840
Lost Creek	1,515	1,710	3,030	5,555	6,980	5,470	4,760	3,150	2,340	2,450	2,630	2,770
Pineview	29,360	34,310	59,880	89,310	99,120	95,240	83,330	97,270	56,380	56,380	61,150	65,270
Smith-Morehouse	5,445	5,761	6,146	6,280	7,758	7,659	6,534	5,244	4,997	5,262	5,779	6,090
Wanship	28,080	30,460	37,030	41,720	48,150	54,300	49,960	43,050	39,590	40,600	41,640	40,690
Willard	47,062	55,545	79,053	102,675	92,825	69,918	45,943	28,555	24,433	28,555	36,248	48,502
Total	175,915	197,511	267,295	343,173	358,796	330,789	268,931	208,158	175,283	181,991	206,766	230,728

MONTHLY RELEASES (AF)

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Causey	992	914	1,894	4,002	7,942	2,442	3,593	3,816	2,124	988	434	668	29,809
East Canyon	372	348	372	360	528	2,180	4,586	4,422	2,544	658	360	367	17,097
Echo	0	0	0	0	6,184	14,304	24,056	24,244	7,602	8,384	0	0	84,774
Lost Creek	372	348	372	534	558	1,522	2,368	2,168	120	600	480	496	9,938
Pineview	310	124	42	648	8,541	11,405	15,676	19,125	19,125	4,642	0	3,320	82,958
Smith-Morehouse	62	58	618	2,548	8,188	6,374	1,486	1,798	434	186	180	186	22,118
Wanship	2,142	1,566	1,590	1,500	5,294	8,040	10,484	10,692	7,602	6,010	5,446	4,316	64,682
Willard	1,194	768	1,479	552	12,940	23,031	27,615	19,377	4,176	2,886	1,550	1,620	97,188
Total	5,444	4,126	6,367	10,144	50,176	69,298	89,864	85,642	43,727	24,354	8,450	10,973	408,564

WEBER BASIN PROJECT / PRINCIPLE PROJECT WORKS

RESERVOIRS

Name	Type of Dam	Height (Feet)	Total Capacity	Usable District Capacity	Construction Dates
Causey	Earth & Rock	200	7,870	6,870	1962-1964
East Canyon	Concrete Arch	245	51,200	20,100	1965-1967
Lost Creek	Earth & Rock	220	22,500	20,010	1964-1966
Pineview	Earth & Rock	91	110,150	66,228	1955-1957
Smith & Morehouse	Earth & Rock	82	8,350	6,560	1984-1988
Wanship	Earth & Rock	156	62,120	60,860	1954-1957
Willard	Earth	36	215,000	198,200	1957-1963

DIVERSION DAMS

Name	Location	Pass-Through Capacity	Construction Dates
Ogden Valley	South Fork of Ogden River	2,000 C.F.S.	1962-1964
Slaterville	Weber River west of Ogden	9,000 C.F.S.	1956-1957
Stoddard	Weber River west of Morgan	6,000 C.F.S.	1955-1956

CANALS, TUNNELS & PIPELINES

Name	Type	Length (Miles)	Capacity (CFS)	Construction Dates
Davis Aqueduct	Concrete pipe	23.0	355	1954-1957
Gateway Canal	Concrete-lined	8.5	700	1954-1956
Gateway Tunnel	Concrete-lined	3.3	435	1952-1954
Layton Canal	Earth-lined/pipeline	18.0	260	1962-1964
Ogden Valley Canal	Part Earth-lined	9.2	35	1962-1964
Weber Aqueduct	Concrete pipe	5.0	80	1954-1956
Willard Canal	Earth-lined	11.0	1,150	1961-1963
M&I pipelines	Varies 6" - 48"	76.5	-	1955-2002

POWER PLANTS

Name	Type	Capacity (Kilowatts)	Construction Dates
Causey	2-unit	2,100	1999-2000
Gateway	2-unit	4,275	1957-1958
Wanship	1-unit	1,950	1957-1958

PUMPING PLANTS

Name	Location	Capacity (CFS)	Height of Lift (Ft.)
East Bountiful	Davis Aqueduct	18	475
East Layton	Davis Aqueduct	6	165
Gateway	Gateway Canal	150	150
Layton	Layton Canal	260	23
Roy Drought Relief	Layton Canal	150	340
Sand Ridge East	Davis Aqueduct	8	92
Sand Ridge West	Davis Aqueduct	12	138
South Davis	Davis Aqueduct	18	580
Uintah Bench	Weber Aqueduct	18	365
Val Verda	Davis Aqueduct	6	240
Willard No. 1	Willard Canal	500	45
Willard No. 2	Willard Canal	250	20
Antelope Booster	Layton	22	50
Old Post Road Booster	Ogden	6	200



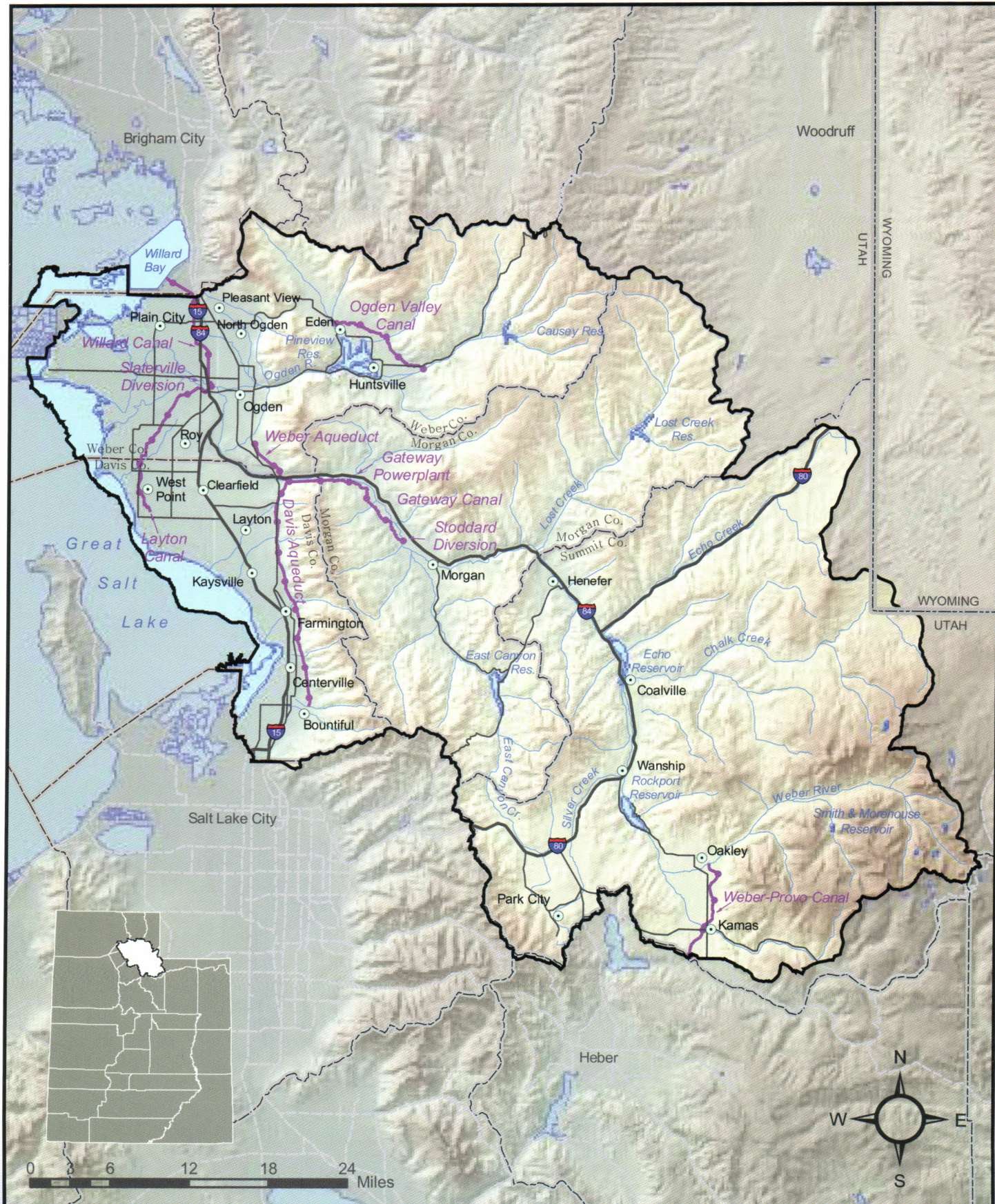
UNDERGROUND WATER

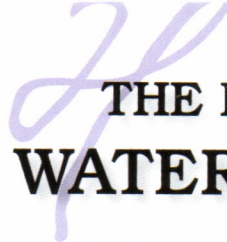
WATER TREATMENT PLANT CAPACITIES

Well	Capacity (CFS)	Plant	Capacity
Ben Lomond	2.0	Davis North	70 CFS (46 MGD)
Bountiful	5.2	Davis South	25 CFS (16 MGD)
Clearfield 1	5.0	Weber South	40 CFS (26 MGD)
Clearfield 2	5.0		
Davis Boulevard	2.2		
District Well 2	11.0		
District Well 3	10.0		
Laytona	5.0		
North Ogden	1.9		
Orchard Drive	1.0		
Riverdale	6.6		
South Weber 1	10.0		
South Weber 2	10.0		

CFS=Cubic Feet per Second
MGD=Millions Gallons Per Day

WEBER BASIN WATER CONSERVANCY DISTRICT SERVICE AREA MAP





THE HISTORY OF

WEBER BASIN WATER CONSERVANCY DISTRICT

The United States Bureau of Reclamation began planning for the Weber Basin Project in 1942, and Congressional authorization of the Project was received in 1949. The Weber Basin Water Conservancy District (WBWCD) was created on June 26, 1950, by a decree of the Second District Court of Utah, under the guidelines of the Utah Water Conservancy Act. The District was formed to act as the local sponsor of the federal project and to further supply water resources to the population within its boundaries.

The original project, including reservoirs, canals, irrigation and drainage systems and power plants were constructed by the Bureau of Reclamation from 1952 through 1969. The District entered into a repayment contract with the United States in 1952, which will be completed in approximately 2034, to repay all of the original Project costs and interest related to water supply. Funding for this repayment and the development of other water sources is from water sales and the original one mil property tax placed on the District at its inception.

The Weber Basin Water Conservancy District covers over 2,500 square miles within five counties: Davis, Weber, Morgan, Summit and a part of Box Elder. The District is governed by a nine member Board of Trustees: three from Davis County, three from Weber County, one from the upper Weber County, one from Morgan County, and one from Summit County. The General Manager for the District is Tage I. Flint. Under his direction, there are two Assistant General Managers, Mark Anderson and Scott Paxman, and four Department Managers: John Davis, Controller and Human Resources Manager; Sherrie Mobley, Administration Manager; Lou Eddy, Maintenance Manager; and Chris Hogge/Grant Salter, Irrigation and Power Manager. The District currently employs approximately 75 employees.

Weber Basin delivers approximately 220,000 acre-feet of water annually: 60,000 acre-feet for municipal and industrial uses and 160,000 acre-feet for irrigation, which includes secondary pressure irrigation systems. The District operates seven large storage reservoirs which store approximately 400,000 acre-feet of the District's water. The reservoirs are: Causey, East Canyon, Lost Creek, Pineview, Smith & Morehouse, Wanship and Willard Bay. Due to the later priority of the District's water rights on the river systems, it is necessary to have storage volume equal to a two year water supply. The District operates three hydro-power generation plants that can produce up to about 8 megawatts of electricity. Also operated and maintained are over 79 miles of canals, a trans-mountain tunnel, two multi-county aqueducts, hundreds of miles of raw water and culinary pipelines, and nine major pumping stations.

The District is unique for its ability to serve five classifications of water service, including agricultural water (flood and pressure), drinking water, industrial supplies, groundwater replacement and pressurized/secondary water. The groundwater replacement water being for the areas east of the Wasatch Front, including upper Weber County, Morgan County and Summit County.

Three drinking water treatment plants and related distribution systems were also constructed by the District between 1959 to 1962. They are all undergoing extensive rehabilitation and modernization projects to meet new EPA drinking water standards. The District currently provides culinary water to approximately 425,000 people in the five counties. In addition to the treatment plants, the District operates 17 deep, large capacity wells to increase supply and capacity to the District's customers. Depths are up to 1,200 feet and capacities up to 5,000 gallons per minute.

Weber Basin Water acts as a wholesaler of drinking water to cities, and other districts and agencies. These entities then deliver to the tap of individual users.

Future issues for the District center around development of sufficient water supplies and facilities to meet the needs of the growing population within its boundaries. Water conservation plays an increasingly important role as new sources are likely to be difficult and expensive to develop. Water demands on the District are projected to double in the next 40 years even with the assumption that the existing per capita use will reduce significantly. These projections, along with the constant need to upgrade and rehabilitate existing infrastructure, push the financial needs projections to one half billion dollars over the next 30 years. Beyond conservation, new projects will include completion of groundwater drilling, change of use of local river supplies and probably a large regional importation project.